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PROJECT BOOKLET

MAT1038 Applied Mathematics 10
Module 3

FOR STUDENT USE ONLY

Date Assignment Submitted:

Time Spent on Assignment:

(If label is missing or incorrect)

Student File Number:

Module Number: _____

FOR OFFICE USE ONLY

Assigned

Teacher: _____

Assignment

Grading: _____

Graded by: _____

Date Assignment Received:

Student's Questions and Comments

Apply Module Label Here

Name

Address

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Please verify that preprinted label is for
correct course and module.

Teacher's Comments

Teacher

INSTRUCTIONS FOR SUBMITTING THIS DISTANCE LEARNING PROJECT BOOKLET

When you are registered for certain distance learning courses, you are expected to submit completed projects for correction. Try to submit each project as soon as you complete it. Do not submit more than one Project Booklet in one subject at the same time. Before submitting your Project Booklet, please check the following:

- Is the project completed? If not, explain why.
- Has your work been reread to ensure accuracy in spelling and details?
- Is the booklet cover filled out and the correct module label attached?

MAILING

1. Postage Regulations

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Send all letters in a separate envelope.

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E-MAILING

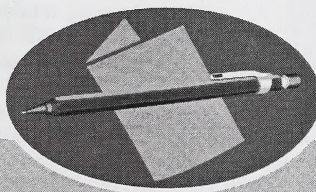
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Applied Mathematics 10

Module 3

Relations and Functions

PROJECT BOOKLET



**Learning
Technologies
Branch**

Alberta
LEARNING

FOR TEACHER'S USE ONLY

Summary

Total Possible Marks	Your Mark
40	

Teacher's Comments

Applied Mathematics 10
Module 3: Relations and Functions
Project Booklet
Learning Technologies Branch
ISBN 0-7741-1724-9

This document is intended for

Students	✓
Teachers	✓
Administrators	
Home Instructors	
General Public	
Other	



You may find the following Internet sites useful:

- Alberta Learning, <http://www.learning.gov.ab.ca>
- Learning Technologies Branch, <http://www.learning.gov.ab.ca/lrb>
- Learning Resources Centre, <http://www.lrc.learning.gov.ab.ca>

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PROJECT BOOKLET

APPLIED MATHEMATICS 10 – MODULE 3: RELATIONS AND FUNCTIONS

Read all parts of this booklet carefully and record your answers in the appropriate place. Work slowly and carefully. If you are having difficulties, go back and review the appropriate activity in the Student Module Booklet.

Be sure to complete all parts of the project and proofread your responses before you submit this project to your teacher for grading. If you require more room for any response, use your own paper, and attach it securely to this booklet.

Your mark on this module will be determined by how well you do on the module project in this Project Booklet and the module assignment in the Assignment Booklet.

The value of each part of the module project is stated in the left margin of this booklet. The total value of the module project is 40 marks.

40

Module Project: Epidemics

For your Module 3 project, Epidemics, you will give a general description of an epidemic and explain how an epidemic spreads and why it eventually stops. You will choose two epidemics to research. You will report on these epidemics and describe them mathematically.

10

1. Give a general description of epidemics. In your description, indicate how epidemics differ from other diseases and indicate three factors that make it possible for an epidemic to spread. Also, give three reasons why an epidemic generally slows and finally comes to a stop. Consider both the natural end of an epidemic and human preventative measures.

(There is more room for your answer on the next page.)

[illegible]

5

2. Choose two examples of epidemics. Research these epidemics and give your report by completing the following charts. State your sources of information.

a. Epidemic 1: _____
(name of the disease)

Where the epidemic occurred	
When the epidemic occurred	
How the disease spread from person to person	
Symptoms associated with the disease	
Why the epidemic slowed and came to an end	

Sources: _____

5

b. Epidemic 2: _____
(name of the disease)

Where the epidemic occurred	
When the epidemic occurred	
How the disease spread from person to person	
Symptoms associated with the disease	
Why the epidemic slowed and came to an end	

Sources: _____

3. Describe mathematically each of the two epidemics you chose. Indicate the number of victims involved and the trend in each epidemic's growth and decline. (Use graphs, equations, and tables, as appropriate.) State your sources of information.

Note: As your guide, use the sample spreadsheet in exercise 8 of "What Should I Be Able to Do?" on page 161 of your textbook. You may want to review your evaluation and the one provided in the Appendix of the Student Module Booklet.

Your research, use of mathematical tools to represent data, and presentation will affect your mark. You may wish to use word-processing and spreadsheet software, but this is optional. Use your own paper if you require more space. Be sure to include your name, the course name, and module number on any attached pages.

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- a. Epidemic 1: _____

10 b. Epidemic 2: _____

